Bruhat Bangalore Mahanagara Palike
Executive Engineer Project Division Yelahanka

Name of Work: Modified Estimate for Construction of Watch Tower in NES Circle of Yelahanka sub division

Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. .iii) Dismantling Stone Masonry. A. Rubble Stone masonry in lime mortar.								
Old Toilet								
Outer wall Size Stone West	2	7.00	0.60	1.20	10.08			
Outer wall Size Stone South	1	11.50	0.60	1.20	8.28			
Internal Walls	5	2.00	0.60	0.90	5.40			
Internal Walls	2	4.00	0.60	0.90	4.32			
				Total Qty	**28.08**			
				Scehdule-B Qty	**19.58**	**Cum**		
				Qty Upto 125%	**24.48**	**Cum**	**309.80**	**7582.32**
				Qty Above 125%	**3.61**	**Cum**	**315.24**	**1136.44**
Approved Rate		**309.80**						
Dismantling the tile work in floor and roof laid in cement or surki mortar including stacking the materials with in 50 m lead of tiles thickness 10mm to 25mm. including cost of materials, labour, HOM complete as per specifications.								
Old Toilet Flooring								
	1	11.50	7.00		**80.50**			
				Total Qty	80.50			
				Scehdule-B Qty	**80.50**	**Sqm**		
				Qty Upto 125%	**80.50**	**Sqm**	**52.69**	**4241.79**
Approved Rate		**52.69**						
Easing of shutters of door. including cost of materials, labour, HOM complete as per specifications.								
Old Toilet								
Door Shutters	6				6.00			
				Total Qty	6.00			
				Scehdule-B Qty	**5.00**	**Nos**		
				Qty Upto 125%	**6.00**	**Nos**	**93.58**	**561.45**
Approved Rate		**93.58**						
Scraping plaster in lime or cement mortar from brick / stone masonry.								
Old Toilet								
Outer Wall	2	7.00		2.60	36.40			
Outer Wall	2	11.50		2.60	59.80			
Internal walls	5	2.00		2.60	26.00			
Internal walls	2	4.00		2.60	20.80			
Deductions D	-5	0.90		2.10	-9.45			
D1	-6	1.20		2.10	-15.12			

					Total Qty	118.43		
					Scehdule-B Qty	123.92	Sqm	
Approved Rate					Qty Upto 125%	118.43	Sqm	22.71	2689.84
	22.71							
Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. By mechanical means. A cement concrete grade M-15m & M-20								
old Toilet								
Top Slab	1	11.50	7.00	0.15	12.08			
Roof beam	2	11.50	0.23	0.60	3.17			
	4	7.00	0.23	0.60	3.86			
Floor Concrete	1	11.50	7.00	0.15	12.08			
					Total Qty	31.19		
					Scehdule-B Qty	32.74	Cum	
					Qty Upto 125%	31.19	Cum	369.76	11532.06
Approved Rate	369.76							
Dismantling CI or AC rain water Pipes with fittings and clamps and stacking the materials with a lead of 50 meters. including cost of materials, labour, HOM complete as per specifications.								
old Toilet								
	1	20.00			20.00			
	1	30.00			30.00			
					Total Qty	50.00		
					Scehdule-B Qty	50.00	Nos	
					Qty Upto 125%	50.00	Nos	27.26	1362.75
Approved Rate	27.26							
Dismantling weather proof course and removing and conveying the debris to a distance upto 200m. including cost of materials, labour, HOM complete as per specifications.								
Old Toilet								
Top Slab	1	11.50	7.00	0.10	8.05			
					Total Qty	8.05		
					Scehdule-B Qty	8.05	Nos	
					Qty Upto 125%	8.05	Nos	792.21	6377.31
Approved Rate	792.21							
Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications.								
Qty Item No-1					28.08			
Qty Item No-2					80.50			
Qty Item No-4					118.43			
Qty Item No-5					31.19			
Qty Item No-7					8.05			
Qty Item E-1					30.16			
					Total Qty	296.41		
					Scehdule-B Qty	60.37	Cum	
					Qty Upto 125%	75.46	Cum	103.57	7815.58

Approved Rate			**Qty Above 125%**		**220.95**	**Cum**	**104.72**	**23136.71**
	103.57							
Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications with all lead and lift and directions of the Engineer-In-charge of the work.								
			Total Qty		**0.00**	**Cum**		
			Scehdule-B Qty		**94.62**	**Cum**		
			Qty Upto 125%		**0.00**	**Cum**	**267.10**	**0.00**
			Qty Above 125%		**0.00**	**Cum**	**267.10**	**0.00**
Approved Rate	**267.10**							
Earthwork excavation by manual means for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in Ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications with all lead and lift and directions of the Engineer-In-charge of the work.								
NES Circle Clock Tower								
For Footing C2 F1	4	1.70	1.70	3.20	37.0			
For Footing C1	1	3.30	3.30	3.20	34.85			
SSM Protection Wall East Side of Clock Tower								
East Side	1	7.25	0.90	0.90	5.87			
	1	6.35	0.90	0.90	5.14			
	1	7.25	0.90	0.90	5.87			
West Side	1	6.45	0.90	0.90	5.22			
	1	8.30	0.90	0.90	6.72			
	1	6.45	0.90	0.90	5.22			
For Sump	1	2.90	3.10	1.50	13.49			
SSM Protection Wall West Side of Clock								
	1	16.50	0.90	0.90	13.37			
	1	6.30	0.90	0.90	5.10			
	1	16.50	0.90	0.90	13.37			
	1	8.20	0.90	0.90	6.64			
				Total Qty	**157.86**			
				Scehdule-B Qty	**247.50**	**Cum**		
				Qty Upto 125%	**157.86**	**Cum**	**319.79**	**50482.53**
Approved Rate	**319.79**							
Providing and filling in foundation with granite / **trap borken metal 100mm** and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift complete as per specification. (Soling) with all lead and lift and directions of the Engineer-In-charge of the work.								
NES Circle Clock Tower								
For Footing C2 F1	4	1.70	1.70	0.20	2.31			
For Footing C1	1	3.30	3.30	0.20	2.18			
				Total Qty	**4.49**			
				Scehdule-B Qty	**9.28**	**Cum**		
				Qty Upto 125%	**4.49**	**Cum**	**2598.31**	**11666.41**

Approved Rate		**2598.31**						
Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregate @ 0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms, thick well compacted in foundation including cost of all materials, labour HOM of machinery, curing complete as per specifications with all lead and lift and directions of the Engineer-In-charge of the work.								
NES Circle Clock Tower								
For Footing C2 F1	4	1.70	1.70	0.15	1.73			
For Footing C1	1	3.30	3.30	0.15	1.63			
Plat form Concrete	1	7.00	7.00	0.20	9.80			
SSM Protection Wall East Side of Clock Tower								
East Side	1	7.25	0.90	0.15	0.98			
	1	6.35	0.90	0.15	0.86			
West Side	1	7.25	0.90	0.15	0.98			
	1	6.45	0.90	0.15	0.87			
	1	8.30	0.90	0.15	1.12			
For Sump	1	6.45	0.90	0.15	0.87			
	1	2.90	3.10	0.15	1.35			
SSM Protection Wall West Side of Clock								
	1	16.50	0.90	0.15	2.23			
	1	6.30	0.90	0.15	0.85			
	1	16.50	0.90	0.15	2.23			
	1	8.20	0.90	0.15	1.11			
Footpath from East Side of Clock Tower								
East Side	1	9.50	1.10	0.15	1.57			
	1	30.00	1.10	0.15	4.95			
	1	10.00	1.10	0.15	1.65			
	1	9.50	1.10	0.15	1.57			
	1	30.00	1.10	0.15	4.95			
	1	10.00	1.10	0.15	1.65			
				Total Qty	**42.94**			
				Scehdule-B Qty	**19.73**	**M**		
				Qty Upto 125%	**24.66**	**M**	**5555.48**	**137011.96**
				Qty Above 125%	**18.28**	**M**	**6274.28**	**114679.75**
Approved Rate		**5555.48**						
Providing and laying in position plain cement concrete of mix M15 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and sills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications with all lead and lift and directions of the Engineer-In-charge of the work.								
Footpath from East Side of Clock Tower								
East Side	1	9.50	1.10	0.10	1.05			
	1	30.00	1.10	0.10	3.30			
	1	10.00	1.10	0.10	1.10			
	1	9.50	1.10	0.10	1.05			
	1	30.00	1.10	0.10	3.30			
	1	10.00	1.10	0.10	1.10			
				Total Qty	**10.89**			

				Scehdule-B Qty		31.54	Cum	
				Qty Upto 125%		10.89	Cum	5798.96	63150.63
Approved Rate			**5798.96**					
Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications with all lead and lift and directions of the Engineer-In-charge of the work.								
SSM Protection Wall East Side of Clock Tower								
East Side	1	7.25	0.45	0.45	1.47			
	1	6.35	0.45	0.45	1.29			
	1	7.25	0.45	0.45	1.47			
West Side	1	6.45	0.45	0.45	1.31			
	1	8.30	0.45	0.45	1.68			
	1	6.45	0.45	0.45	1.31			
SSM Protection Wall West Side of Clock								
	1	16.50	0.45	0.45	3.34			
	1	6.30	0.45	0.45	1.28			
	1	16.50	0.45	0.45	3.34			
	1	8.20	0.45	0.45	1.66			
				Total Qty		**18.13**	**Cum**	
				Schedule-B Qty		**18.72**	**Cum**	
				Qty Upto 125%		**18.13**	**Cum**	**6813.75**	**123559.69**
Approved Rate			**6813.75**					
Filling available excavated earth (excluding rock) insides of foundations upto plinth in layers not exceeding 20cms. In depth, compacting each deposited layer by ramming after watering with a lead upto 50m. And lift upto 1.5m including cost of all labour (Inside platrform , sides and sides of the area) with all lead and lift and directions of the Engineer-In-charge of the work.								
NES Circle Clock Tower								
Total Earth work Qty					157.86			
Deduct Footing, Coloumn Qty up to plinth					-10.15			
East Side	1	7.25	6.35	0.30	13.81			
West Side	1	6.45	6.35	0.30	12.29			
				Total Qty	**173.81**	**Cum**		
				Schedule-B Qty	**195.81**	**Cum**		
				Qty Upto 125%	**173.81**	**Cum**	**215.31**	**37423.60**
Approved Rate			**215.31**					
Conveying the excavated debries and over burden earth etc to a lead 20 kms distances by using private vehicles this including the cost of loading and inloading charges etc with all lead and lift and directions of the Engineer-In-charge of the work.								
				Total Qty	**0.00**	**Cum**		
				Schedule-B Qty	**118.56**	**Cum**		
				Qty Upto 125%	**0.00**	**Cum**	**130.82**	**0.00**
Approved Rate			**130.82**					

Providing and laying in position reinforced cement concrete of design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, lintles, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications with all lead and lift and directions of the Engineer-In-charge of the work.

NES Circle Clock Tower								
For Footing C2 F1								
	4	1.50	1.50	0.30	2.70			
For Footing C1	1	3.10	3.10	0.45	4.32			
Coloumn up to below plinth								
C2								
	4	0.60	0.20	2.35	1.13			
C1	4	0.40	0.20	2.35	0.75			
	4	0.40	0.20	2.60	0.83			
For Plinth	4	0.20	0.20	2.60	0.42			
PB1								
	2	7.40	0.20	0.80	2.37			
PB1	2	7.00	0.20	0.80	2.24			
	2	5.40	0.20	0.80	1.73			
PB2	2	5.00	0.20	0.80	1.60			
	2	1.85	0.20	0.70	0.52			
Plat form Concrete	2	1.45	0.20	0.70	0.41			
Coloumn Above +1.00FFL	1	7.40	7.40	0.20	10.95			
C1								
	4	0.40	0.20	2.40	0.77			
Beam	4	0.20	0.20	2.40	0.38			
	2	1.95	0.20	0.45	0.35			
Slab	2	1.85	0.20	0.45	0.33			
Coloumn Above +2.815m	1	1.95	1.95	0.15	0.57			
C1								
	4	0.40	0.20	2.40	0.77			
Beam	4	0.20	0.20	2.40	0.38			
	2	1.95	0.20	0.45	0.35			
Slab	2	1.55	0.20	0.45	0.28			
Coloumn Above +6.63m	1	1.95	1.95	0.15	0.57			
C1								
	4	0.40	0.20	2.40	0.77			
Beam	4	0.20	0.20	2.40	0.38			
	2	1.95	0.20	0.45	0.35			
Slab	2	1.55	0.20	0.45	0.28			
Coloumn Above +9.445m	1	1.95	1.95	0.15	0.57			
C1								
	4	0.40	0.20	0.90	0.29			
Beam	4	0.20	0.20	0.90	0.14			
	2	1.95	0.20	0.35	0.27			
External Slab	2	1.55	0.20	0.35	0.22			
	4	0.35	1.45	0.15	0.30			
Coloumn Above +9.445m 2nd Lift Bell Top								

C1	4	0.40	0.20	1.48	0.47			
Beam	4	0.20	0.20	1.48	0.24			
	2	1.95	0.20	0.35	0.27			
External Slab	2	1.55	0.20	0.35	0.22			
Clock Room Bottom Slab	4	0.35	1.45	0.23	0.47			
Slab								
	1	1.95	1.95	0.10	0.38			
Invert Beam	1	1.85	1.85	0.20	0.68			
	2	1.95	0.20	0.40	0.31			
C1	2	1.55	0.20	0.40	0.25			
	4	0.40	0.20	0.60	0.19			
Beam	4	0.20	0.20	0.60	0.10			
	2	1.95	0.20	0.40	0.31			
External Slab	2	1.55	0.20	0.40	0.25			
	1	1.95	1.95	0.10	0.38			
				Total Qty	**42.82**	**Cum**		
				Schedule-B Qty	**11.74**	**Cum**		
				Qty Upto 125%	**14.68**	**Cum**	**6465.79**	**94885.53**
				Qty Above 125%	**28.15**	**Cum**	**7081.47**	**199316.18**
Approved Rate	**6465.79**							
Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks,& Plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications with all lead and lift and directions of the Engineer-In-charge of the work.								
				Total Qty	**0.00**	**Cum**		
				Schedule-B Qty	**29.76**	**Cum**		
				Qty Upto 125%	**0.00**	**Cum**	**6215.96**	**0.00**
Approved Rate	**6215.96**							
Providing and laying flooring using prepolished, gang saw/water cut 19mm thick granite laid with a bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials, mortar and labours etc., complete as per specifications.using silver grey granite / Multy Red / Ruby Red / Black / Hassan Green / River Pink Granite of width not less than 1200mm with all lead and lift and directions of the Engineer-In-charge of the work.								
				Total Qty	**0.00**	**Cum**		
				Scehdule-B Qty	**55.12**	**Cum**		
				Qty Upto 125%	**0.00**	**Cum**	**2434.78**	**0.00**
Approved Rate	**2434.78**							
Providing & removing centeing shuttering, strutting, propping etc., and removal of form work for foundations, footings bases of columns for mass concrete including cost of all materials, labour complete as per specifications with all lead and lift and directions of the Engineer-In-charge of the work.								
NES Circle Clock Tower								
For Footing C2 F1	4	6.00		0.30	7.20			
For Footing C1	1	12.40		0.45	5.58			

			Total Qty	12.78	Cum			
			Schedule-B Qty	13.20	Cum			
			Qty Upto 125%	12.78	Cum	276.18	3529.63	
Approved Rate		**276.18**						
Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thicknes including cost of all materials, labour complete as per specifications and direction of the Engineer in charge with all lead and lift and directions of the Engineer-In-charge of the work.								
Coloumn up to below plinth								
C2	4	2.00		2.35	18.80			
C1	4	1.20		2.60	12.48			
For Plinth								
PB1	4	7.40		0.80	23.68			
	4	7.00		0.80	22.40			
PB1	4	5.40		0.80	17.28			
	4	5.00		0.80	16.00			
PB2	4	1.95		0.70	5.46			
	4	1.55		0.70	4.34			
Plat form Side	4	7.40		0.20	5.92			
Coloumn Above +1.00FFL								
C1	4	1.20		2.40	11.52			
Beam	4	1.95		0.45	3.51			
	4	1.55		0.45	2.79			
Slab	1	1.95	1.95		3.80			
Coloumn Above +2.815m								
C1	4	1.20		2.40	11.52			
Beam	4	1.95		0.45	3.51			
	4	1.55		0.45	2.79			
Slab	1	1.95	1.95	0.15	0.29			
Coloumn Above +6.63m								
C1	4	1.20		2.40	11.52			
Beam	2	1.95		0.45	1.76			
	2	1.55		0.45	1.40			
Slab	1	1.95	1.95		3.80			
Coloumn Above +9.445m								
C1	4	1.20	0.20	0.90	4.32			
Beam	2	1.95	0.20	0.35	1.37			
	2	1.55	0.20	0.35	1.09			
External Slab	4	0.35	1.45		2.03			
Coloumn Above +9.445m 2nd Lift Bell Top								
C1	4	1.20	0.20	1.48	7.08			
Beam	2	1.95	0.20	0.35	1.37			
	2	1.55	0.20	0.35	1.09			
External Slab	4	0.35	1.45		2.03			
Clock Room Bottom Slab								
Slab	1	1.95	1.95		3.80			
Invert Beam	4	1.95		0.40	3.12			
	4	1.55		0.40	2.48			
C1	4	1.20		0.60	2.88			
Beam	4	1.95		0.40	3.12			

External Slab	4	1.55		0.40	2.48			
	1	1.95	1.95		3.80			
				Total Qty	226.62	Cum		
				Schedule-B Qty	40.80	Cum		
				Qty Upto 125%	51.00	Cum	383.39	19552.74
				Qty Above 125%	175.62	Cum	390.51	68579.68
Approved Rate		**383.39**						

Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. - TMT Bars Fe 500 with all lead and lift and directions of the Engineer-In-charge of the work.

Consider 96kg/Cum	1	42.82	133.00		5695.21			
				Total Qty	**5.70**	**Tn**		
				Schedule-B Qty	**2.57**	**Tn**		
				Qty Upto 125%	**3.21**	**Tn**	**69475.72**	**223190.75**
				Qty Above 125%	**2.48**	**Tn**	**91387.22**	**226888.18**
Approved Rate		**69475.72**						

Providing and constructing load bearing wall with concrete solid blocks having block ebsity not less than 1800 kg/m3 Having aq minimum average compressive strength of 5.00 N.mm2 confirming to IA 2185 (Part q) 2005 and constructed with CM 1:4 as [er IS 2572:2005 including cost of all materials labour charges, scaffolding. curing hire charges of machineries etc as per specifications Solid concrete blocks of Size 400x150x200 mm with all lead and lift and directions of the Engineer-In-charge of the work.

		Total Qty	**0.00**	**Sqm**			
		Schedule-B Qty	**45.90**	**Sqm**			
		Qty Upto 125%	**0.00**	**Sqm**	**1019.34**	**0.00**	
Approved Rate	**1019.34**						

Providing 20mm thick cement plaster in single coat with cement mortar, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing etc., complete as per specification.Outside Plastering with all lead and lift and directions of the Engineer-In-charge of the work.

For Sump								
Floor	1	2.40	2.60		6.24			
Wall	2	2.40		2.10	10.08			
	2	3.00		2.10	12.60			
				Total Qty	**28.92**	**Sqm**		
				Scehdule-B Qty	**102.00**	**Sqm**		
				Qty Upto 125%	**28.92**	**Sqm**	**309.80**	**8959.37**
Approved Rate		**309.80**						

Providing Rough cement plastering 15mm thick in single coat with cement mortar 1:4, to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications with all lead and lift and directions of the Engineer-In-charge of the work.

		Total Qty	**0.00**	**Sqm**		
		Scehdule-B Qty	**40.80**	**Sqm**		
		Qty Upto 125%	**0.00**	**Sqm**	**219.86**	**0.00**
Approved Rate	**219.86**					

Providing and fixing M.S. Grill over existing compound wall as per using 16mm x 16mm M.S. Square rod at 150mm c/c spacing and 6mm x 40mm M.S. flats at horizontal and 6mm x12mm M.S. flat for ornamental design and providing shop edge design at the vertex of every vertical rods, including welding, grinding wherever necessary. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification with all lead and lift and directions of the Engineer-In-charge of the work.						
		Total Qty	0.00	Sqm		
		Schedule-B Qty	51.00	Sqm		
		Qty Upto 125%	0.00	Sqm	5742.63	0.00
Approved Rate	5742.63					
Providing and fixing Stainless steel 304 grade for staircase raling balconies ramps with hand rail 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of M25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications.(For Ladders) with all lead and lift and directions of the Engineer-In-charge of the work.						
		Total Qty	0.00	Sqm		
		Schedule-B Qty	12.00	Sqm		
		Qty Upto 125%	0.00	Sqm	6439.45	0.00
Approved Rate	6439.45					
Providing textured paint of approved quality, colour and shade to wall surface after cleaning and rubbing the wall surface with wire brush of medium size emery stone to remove all the loosely adhering particles, the surface is then cleaned with water and ensured that it is in line and level. The textured material is then mixed with 40-50% of clean water until a homogeneous thick slurry is formed, the slurry is left for 5-10 min, to react completely with ingredients. The textured finish prepared as above is then applied to the wall surface with suitable roller/spray gun/putty/ blade/ trowel to get the desired finish. The finished surface shall be applied with two coats of exterior paint of approved shade. The rate includes providing and removing scaffolding, all lead and lift and all other incidental charges etc., complete as per directions of the Engineer-in-charge of the work.						
		Total Qty	0.00	Sqm		
		Scehdule-B Qty	102.00	Sqm		
		Qty Upto 125%	0.00	Sqm	469.69	0.00
Approved Rate	469.69					
Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specifications including spreading in uniform thickness, hand packing, rolling with 3- wheeled steel/vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening/binding materials to fill up the interstices of coarse aggregates, watering and compacting to the required density complete as per Specification Crushable type such as Moorum or Gravel for grading II with all lead and lift and directions of the Engineer-In-charge of the work.						
		Total Qty	0.00	Cum		
		Schedule-B Qty	15.77	Cum		
		Qty Upto 125%	0.00	Cum	2192.21	0.00
Approved Rate	2192.21					

providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications.heavy duty cobble stones 60mm thick with all lead and lift and directions of the Engineer-In-charge of the work.							
			Total Qty	0.00	Sqm		
			Schedule-B Qty	260.85	Sqm		
			Qty Upto 125%	0.00	Sqm	1126.54	0.00
Approved Rate		**1126.54**					
Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete.-do- of size 450 x 150 x 500 mm with all lead and lift and directions of the Engineer-In-charge of the work.							
kerb stone from East Side of Clock Tower							
East Side	1	9.50		9.50			
	1	30.00		30.00			
	1	10.00		10.00			
	1	9.50		9.50			
	1	30.00		30.00			
	1	10.00		10.00			
				99.00			
96.40/.45= Nos of Kerb				220.00			
			Total Qty	**220.00**	**Nos**		
			Schedule-B Qty	**430.00**	**Nos**		
			Qty Upto 125%	**220.00**	**Nos**	**472.42**	**103932.40**
Approved Rate		**472.42**					
Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications with all lead and lift and directions of the Engineer-In-charge of the work							
			Total Qty	**0.00**	**Sqm**		
			Scehdule-B Qty	**58.05**	**Cum**		
			Qty Upto 125%	**0.00**	**Cum**	**91.76**	**0.00**
Approved Rate		**91.76**					
Providing Skirting, Dado, rises of steps with BLUE TILES 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over roughj plaster surface (excluding cost of rough plastered surface which should be measured and paid separetely) using glazed tiles of approved make and size including							
			Total Qty	**0.00**	**Sqm**		
			Schedule-B Qty	**111.00**	**Sqm**		
			Qty Upto 125%	**0.00**	**Sqm**	**1485.40**	**0.00**
Approved Rate		**1485.40**					
Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement							
			Total Qty	**0.00**	**Sqm**		
			Schedule-B Qty	**71.00**	**Sqm**		

		Qty Upto 125%	0.00	Sqm	1063.85	0.00
Approved Rate	**1063.85**					
Laying of barbada gross over newly laid red earth surface BBMP approved rate (harticulture) with all lead and lift and directions of the Engineer-In-charge of the work.						
		Total Qty	0.00	Sqm		
		Schedule-B Qty	165.00	Sqm		
		Qty Upto 125%	0.00	Sqm	347.05	0.00
Approved Rate	**347.05**					
Irrigation Sprinkler with all lead and lift and directions of the Engineer-In-charge of the work.						
		Total Qty	0.00	Sqm		
		Scehdule-B Qty	30.00	Sqm		
		Qty Upto 125%	0.00	Sqm	1980.53	0.00
Approved Rate	**1980.53**					
SAND FILTER with multiport controlllable DMX and VFD based valve Supply of bobbinwound fibreglass and polyester resin anti corrosive sand filter with 1.5" connections, with all lead and lift and directions of the Engineer-In-charge of the work.						
		Total Qty	0.00	Nos		
		Scehdule-B Qty	1.00	Nos		
		Qty Upto 125%	0.00	Nos	272550.00	0.00
Approved Rate	**272550.00**					
FILTER MEDIA Supply of Sand Media Size: 0.5 -1mm & Milled down to remove sharp points with all lead and lift and directions of the Engineer-In-charge of the work.						
		Total Qty	0.00	Kgs		
		Schedule-B Qty	50.00	Kgs		
		Qty Upto 125%	0.00	Kgs	79.95	0.00
Approved Rate	**79.95**					
Recirculation Pump: Supply of centrifugal self priming pump with high hydraulic efficiency, chemical resistant and ultra quiet operation. Each pump integrated along with IP-55 protection- class F continuous rating. with all lead and lift and directions of the Engineer-In-charge of the work.						
		Total Qty	0.00	Nos		
		Scehdule-B Qty	1.00	Nos		
		Qty Upto 125%	0.00	Nos	158442.40	0.00
Approved Rate	**158442.40**					
MAIN BASIN FITTINGS: Main Drain , Return inlet Vaccuum point, wall codnuits with all lead and lift and directions of the Engineer-In-charge of the work.						
		Total Qty	0.00	Nos		
		Schedule-B Qty	1.00	Nos		
		Qty Upto 125%	0.00	Nos	31382.32	0.00
Approved Rate	**31382.32**					
Nozzles FOR FOUNTAIN: Fountain nozzles Supply of FOAM jets with 2" connection with all lead and lift and directions of the Engineer-In-charge of the work.						
		Total Qty	0.00	Nos		
		Scehdule-B Qty	10.00	Nos		
		Qty Upto 125%	0.00	Nos	19805.30	0.00
Approved Rate	**19805.30**					
Control system for nozzles with complete 2 way integration to system with all lead and lift and directions of the Engineer-In-charge of the work.						
		Total Qty	0.00	Nos		

		Schedule-B Qty	1.00	Nos		
		Qty Upto 125%	0.00	Nos	174188.52	0.00
Approved Rate	174188.52					

Adj Flange Supply of S S adj flange with 2" inlet & outlet connection capable of leveling the founatin nozzle to plumb with all lead and lift and directions of the Engineer-In-charge of the work.

		Total Qty	0.00	Nos		
		Scehdule-B Qty	9.00	Nos		
		Qty Upto 125%	0.00	Nos	25826.84	0.00
Approved Rate	25826.84					

PUMP FOR FOUNTAIN: Supply submersible pump 240 LPM @ 6 Mtr head with all lead and lift and directions of the Engineer-In-charge of the work.

		Total Qty	0.00	Nos		
		Scehdule-B Qty	3.00	Nos		
		Qty Upto 125%	0.00	Nos	65258.46	0.00
Approved Rate	65258.46					

LIGHT FOR HGH SPRAY JET: Underwater Light Supply of Stainless Steel 316 Stand/ Niche mounted LED light 12W-12V, Warm White with all lead and lift and directions of the Engineer-In-charge of the work.

		Total Qty	0.00	Nos		
		Scehdule-B Qty	9.00	Nos		
		Qty Upto 125%	0.00	Nos	22757.02	0.00
Approved Rate	22757.02					

Driver Supply of SMPS driver. 50W/ 12V with all lead and lift and directions of the Engineer-In-charge of the work.

		Total Qty	0.00	Nos		
		Scehdule-B Qty	9.00	Nos		
		Qty Upto 125%	0.00	Nos	9407.52	0.00
Approved Rate	9407.52					

UV System

		Total Qty	0.00	Nos		
		Scehdule-B Qty	1.00	Nos		
		Qty Upto 125%	0.00	Nos	68328.29	0.00
Approved Rate	68328.29					

CONTROL AND REGULATORY VALVES: All valves shall be in PVC with PN10 rating and EPDM seat. Valves and fittings with complete IP rated, Ball Valve single union dia 7.1, 32 mm , Ball Valve single union dia 63mm , Single union check valve 63mm with all lead and lift and directions of the Engineer-In-charge of the work.

		Total Qty	0.00	Nos		
		Scehdule-B Qty	1.00	Nos		
		Qty Upto 125%	0.00	Nos	64760.61	0.00
Approved Rate	64760.61					

PIPES AND FITTINGS MAKE:SUPREME/ FINOLEX 90mm dia pipe = 6 mtr,75mm dia pipe = 6 mtr 63mm dia pipe = 84 mtr, 50mm dia pipe = 36 mtr,32mm dia pipe = 6 mtr with all lead and lift and directions of the Engineer-In-charge of the work.

		Total Qty	0.00	Set		
		Scehdule-B Qty	1.00	Set		
		Qty Upto 125%	0.00	Set	67338.02	0.00
Approved Rate	67338.02					

LIGHT: Supply of copper cable with PVC conduits from junction boxes to transformer & transformer to control panel. (length in mters as per drawing) 1.5 Sq mm = 100 mtr 2.5 Sqmm = 50 mtr							
		Total Qty	0.00	Set			
		Schedule-B Qty	1.00	Set			
		Qty Upto 125%	0.00	Set	29707.95	0.00	
Approved Rate	29707.95						
Supply of Control panel for controlling pumps, lights.Body shall be powder coated sheet metal cabinet for indoor installation, wall mounted, dust proof and shall be with hinged doors with rubber gasket. Panel shall read and display pump status, light status,voltage, current. Panel shall come with single phase prevention, phase reversal protection. (in case of 3-phase pumps). with all lead and lift and directions of the Engineer-In-charge of the work.							
		Total Qty	0.00	Nos			
		Schedule-B Qty	1.00	Nos			
		Qty Upto 125%	0.00	Nos	590525.00	0.00	
Approved Rate	590525.00						
CLEANING & MAINTENANCE Vacuum Hose , wall brush, algae brush, flat net, deep net, telescopic pole, vaccuuum head, test kit with all lead and lift and directions of the Engineer-In-charge of the work.							
		Total Qty	0.00	lot			
		Schedule-B Qty	1.00	lot			
		Qty Upto 125%	0.00	lot	136275.00	0.00	
Approved Rate	136275.00						
INSTALLATION with all lead and lift and directions of the Engineer-In-charge of the work.							
		Total Qty	0.00	LS			
		Schedule-B Qty	1.00	LS			
		Qty Upto 125%	0.00	LS	22712.50	0.00	
Approved Rate	22712.50						
Clock Tower Structural steel Specification: Providing, fabricating, erecting and fixing in position of steel plates as per design at all Elevations using fusion welding quality steel conforming to latest IS: 2062- Steel Plate Grade/Classification E250 (Fe410W) B or E350 (Fe 490) (as required and Indicated in drawings), including cutting, welding or bolting, supply of Bolts/nuts/washers etc. complete as per drawings including surface Preparation. The plates are joined together on one side of the web by a continuous automatic submerged arc welding process to produce the section required and other side by stich weld and applying two coats of synthetic enamel paint over a coat of primer at all levels and location etc.. complete all as specified.							
		Total Qty	0.00	Kgs			
		Schedule-B Qty	5135.00	Kgs			
		Qty Upto 125%	0.00	Kgs	181.70	0.00	
Approved Rate	181.70						
1. Clock dial design .... : Roman number dials with central Art work as per your selected clock dials. The numbers will be black vinyl cut letters placed on Food Grade Acrylic Imported Sheet of 5mm Thickness. We will produce the clock dial exactly as per your selected design.2. Machine for the tower clocks..... ..... : We will provide GPS based Machine for the tower clock so that the clocks will work with satellite time signals and will display IST Indian Standard Time. 3. Hands for the clock dials..... .. .. : We will provide One No. Hour hand and One No. Minute hand to show time on the clocks. Both the hands will be made with Aluminium Sheet metal and will be dynamically balanced for smooth travelling on the							
		Total Qty	0.00	Nos			
		Schedule-B Qty	2.00	Nos			
		Qty Upto 125%	0.00	Nos	863075.00	0.00	
Approved Rate	863075.00						

INSTALLATION with all lead and lift and directions of the Engineer-In-charge of the work.

		Total Qty	0.00	LS		
		Schedule-B Qty	1.00	LS		
Approved Rate	22712.50	Qty Upto 125%	0.00	LS	22712.50	0.00

HT Cable : Supply and laying of high tension 11 KV cable, Dry Curing & Dry Cooling with true triple extrusion, 3 core under ground XLPE (E) cable having stranded compact circular aluminium conductor, screened insulated, insulation screened with extruded semiconducting compound in combination with copper tape, core laid up innner sheathed of PVC tape GI flat strip armoured and overall PVC sheathed as per IS 7098/11/85 with latest ammendments 3C x 185Sq.mm with all lead and lift and directions of the Engineer-In-charge of the work.

		Total Qty	0.00	mtr		
		Scehdule-B Qty	4.00	mtr		
Approved Rate	1362.75	Qty Upto 125%	0.00	mtr	1362.75	0.00

Supplying of 1.1 KV LT UG cable XLPE or Heat resistant pvc insulatied,pvc extruded inner sheath

		Total Qty	0.00	LS		
		Scehdule-B Qty	60.00	mtr		
Approved Rate	149.90	Qty Upto 125%	0.00	mtr	149.90	0.00

Labour charges for laying of 1.1 KVclass UG cable in existing trench GI pipe / stoneware pipe / on wall/ on

		Total Qty	0.00	mtr		
		Scehdule-B Qty	50.00	mtr		
Approved Rate	13.63	Qty Upto 125%	0.00	mtr	13.63	0.00

Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes with all lead and lift and directions of the Engineer-In-charge of the work.

		Total Qty	0.00	Nos		
		Scehdule-B Qty	10.00	Nos		
Approved Rate	12.72	Qty Upto 125%	0.00	Nos	12.72	0.00

Supplying and fiixing of heavy duty cable glands suitable for UG cable of 1.1 KVclass (metal only) 19/20mm dia with all lead and lift and directions of the Engineer-In-charge of the work.

		Total Qty	0.00	Nos		
		Scehdule-B Qty	10.00	Cum		
Approved Rate	68.14	Qty Upto 125%	0.00	Cum	68.14	0.00

Supply and fixing of class A (Medium Duty) GI Pipe of wall thickness not less than 3.25mm on pole/ wall/ drain crossing with necessary clamping arrangements for UG cable of 1.1 KV 65mm with all lead and lift and directions of the Engineer-In-charge of the work.

		Total Qty	0.00	Mtr		
		Scehdule-B Qty	20.00	Mtr		
Approved Rate	563.27	Qty Upto 125%	0.00	Mtr	563.27	0.00

Supply and fixing of class A (Medium Duty) GI Pipe of wall thickness not less than 3.25mm on pole/ wall/ drain crossing with necessary clamping arrangements for UG cable of 1.1 KV 80mm with all lead and lift and directions of the Engineer-In-charge of the work.

		Total Qty	0.00	Mtr		
		Scehdule-B Qty	15.00	Mtr		
		Qty Upto 125%	0.00	Mtr	681.38	0.00
Approved Rate	681.38					

providing, laying and fixing following dia RCC pipe NP2 class (light dyuty) in ground complete with RCC collars,jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm deep) and refilling etc. as required 150mm dia with all lead and lift and directions of the Engineer-In-charge of the

		Total Qty	0.00	Mtr		
		Scehdule-B Qty	15.00	Mtr		
		Qty Upto 125%	0.00	Mtr	590.53	0.00
Approved Rate	590.53					

providing, laying and fixing following dia RCC pipe NP2 class (light dyuty) in ground complete with RCC collars,jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm deep) and refilling etc. as required 300mm dia with all lead and lift and directions of the Engineer-In-charge of the

		Total Qty	0.00	Mtr		
		Scehdule-B Qty	15.00	Mtr		
		Qty Upto 125%	0.00	Mtr	863.08	0.00
Approved Rate	863.08					

Supply of LED Street light with pressure die cast aluminum housing body for optimal thermal dissipation. lamp compartment comprising of anit glare diffuser with injection moulded poly carbonate material delivering superior light output.Rated life burning Hrs 50000 hr. @ Lumen Maintainace of 70% maximum light intenstiy should be between 60degree to 70degrees. CCT>5500K IP66 optical and eectrical compartment & impact resistance of complete luminaire>IK08.Power Factor >0.9 with mains Surgeprotection min 5KV along with over voltage/Over load short circuit/ miswiring protection .compatible for pole mounting with outer dia of 40mm to 50mm.Universal Voltage driver to operate wide voltage range from 100v to270V 50/60Hz application. Compliance to IS 10322/IEC 60598,LM 79 & LM 80adherence with RoHS.UL approved MCPCB.Top access street light with single screw to ensure ease of maintainence at the sight site location with minimized minimal tools.LED light fixture with below wattage system power consumption.LED Efficiency > 130lm/w at 1W , nominal CRI >75+ Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any goverment certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark/name shall be engraved/emossing on the die cast husing/ Body prat. Warranty of 2 years against any manufacturng defect working under standard electrical condition as mentiond above should be given by LED Manufacturer & cree/ Nichia/ lumiled/Osram Make led source 90 Watts with all lead and lift and directions of the Engineer-In-charge of the work.

		Total Qty	0.00	Nos		
		Scehdule-B Qty	10.00	Nos		
		Qty Upto 125%	0.00	Nos	7086.30	0.00
Approved Rate	7086.30					

Fixing Halogen/metal halide/SVL/IL/LED flood light fitting over esisting pole/ wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires. with all lead and lift and directions of the Engineer-In-charge of the work.

		Total Qty	0.00	Nos		
		Scehdule-B Qty	5.00	Nos		
		Qty Upto 125%	0.00	Nos	172.62	0.00
Approved Rate	172.62					

Supplying, fixing, wiring, earth electrode for grounding of lifts, transformers, DG set etc using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts with all lead and lift and directions of the Engineer-In-charge of the work.

		Total Qty	0.00	Nos		
		Scehdule-B Qty	6.00	Nos		
		Qty Upto 125%	0.00	Nos	4088.25	0.00
Approved Rate	4088.25					

Chemical earthing for grounding, cutouts, IC cutouts and other equipments on the meter board by using copper bonded/ SS rod with earth enhancing backfill compound which is non corrosive, thermally conductive, potential to permissible limits, superior fault condition capacity, non toxic weather resistance and capable of achieving ohmic value less than one ohm Using 10 ft copper bonded rod with backfill compund with all lead and lift and directions of the Engineer-In-charge of the work.

		Total Qty	0.00	Nos		
		Scehdule-B Qty	3.00	Nos		
		Qty Upto 125%	0.00	Nos	7177.15	0.00
Approved Rate	7177.15					

Supplying and running of GI/copper strips for grounding connectionss, using necessary fixing material as required GI Strip 25x3mm with all lead and lift and directions of the Engineer-In-charge of the work.

		Total Qty	0.00	Mtr		
		Scehdule-B Qty	120.00	Mtr		
		Qty Upto 125%	0.00	Mtr	0.00	0.00
Approved Rate	77.22					

Supplying and running of GI/copper strips for grounding connectionss, using necessary fixing material as required GI Strip 25x3mm with all lead and lift and directions of the Engineer-In-charge of the work.

		Total Qty	0.00	Mtr		
		Scehdule-B Qty	90.00	Mtr		
		Qty Upto 125%		Mtr	113.56	0.00
Approved Rate	113.56					

Supplying and running of GI/copper strips for grounding connectionss, using necessary fixing material as required CU Strip 25x3mm with all lead and lift and directions of the Engineer-In-charge of the work.

		Total Qty	0.00	Mtr		
		Scehdule-B Qty	174.00	Mtr		
		Qty Upto 125%	0.00	Mtr	545.10	0.00
Approved Rate	545.10					

Supplying and running of GI/copper strips for grounding connectionss, using necessary fixing material as required CU Strip 40x6mm with all lead and lift and directions of the Engineer-In-charge of the work.

		Total Qty	0.00	Mtr		
		Scehdule-B Qty	174.00	Mtr		
		Qty Upto 125%	0.00	Mtr	1135.63	0.00
Approved Rate	1135.63					

Supplying and running G/Copper Conductor for grounding and (along with other wires in conduit system of wiring)using necessarysuitable size clamps,nails, guttas/Spacers etc... 8 SWG GI Wire with all lead and lift and directions of the Engineer-In-charge of the work.							
		Total Qty	0.00	Mtr			
		Scehdule-B Qty	847.00	Mtr			
		Qty Upto 125%	0.00	Mtr	18.17	0.00	
Approved Rate	18.17						
25x6mm solid tape(flat) Conductor complete as specified in drawing & Meets the requirements. with all lead and lift and directions of the Engineer-In-charge of the work.							
		Total Qty	0.00	Mtr			
		Scehdule-B Qty	144.00	Mtr			
		Qty Upto 125%	0.00	Mtr	113.56	0.00	
Approved Rate	113.56						
25x6mm GI solid tape(flat) Conductor complete as specified in drawing & Meets the requirements. with all lead and lift and directions of the Engineer-In-charge of the work.							
		Total Qty	0.00	Mtr			
		Scehdule-B Qty	110.00	Mtr			
		Qty Upto 125%	0.00	Mtr	114.60	0.00	
Approved Rate	114.60						
Supplying and fixing of Hot dip Galvanized M.S Bracket suitable for outdoor luminaires and mounted on octagonal pole using necessary bolts, nutes etc. complete. Single arm bracket with 1500mm standard 40/50dia with all lead and lift and directions of the Engineer-In-charge of the work.							
		Total Qty	0.00	Nos			
		Scehdule-B Qty	1.00	Nos			
		Qty Upto 125%	0.00	Nos	2100.00	0.00	
Approved Rate	2100.00						
Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge In cement mortar (V-II, P.No.163, I.No.19.7.3 of PW, PWD SR 2021-22)							
old Toilet							
Wall	2	7.00	0.23	2.60	8.37		
	2	11.50	0.23	2.60	13.75		
	5	2.00	0.13	2.60	3.25		
	2	4.00	0.23	2.60	4.78		
					30.16	**Cum**	**876.58**	**26437.62**
Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) (V-II, P.No.9, I.No.5.4 of PW, PWD SR 2021-22)							
SSM Protection Wall East Side of Clock Tower							
East Side	1	7.25	0.75	0.60	3.26		
	1	6.35	0.75	0.60	2.86		
	1	7.25	0.75	0.60	3.26		
West Side	1	6.45	0.75	0.60	2.90		
	1	8.30	0.75	0.60	3.74		
	1	6.45	0.75	0.60	2.90		
SSM Protection Wall West Side of Clock							
	1	16.50	0.75	0.60	7.43		
	1	6.30	0.90	0.60	3.40		

	1	16.50	0.90	0.60	8.91			
	1	8.20	0.90	0.60	4.43			
					43.09	Cum	5946.07	256201.38
Providing and laying flooring and steps fine dressed granite stone slabs 40 mm thick on cement mortar bed 1:6, 25 mm thick, and pointed with cement mortar 1:3 over existing cement concrete bed , including cost of materials, mortar, labour, curing complete as per specifications (V-II, P.No.64, I.No.9.29 of PW, PWD SR 2021-22)								
SSM Protection Wall East Side of Clock Tower								
East Side	1	7.25	0.55		3.99			
	1	6.35	0.55		3.49			
West Side	1	7.25	0.55		3.99			
	1	6.45	0.55		3.55			
	1	8.30	0.55		4.57			
	1	6.45	0.55		3.55			
SSM Protection Wall West Side of Clock								
	1	16.50	0.55		9.08			
	1	6.30	0.55		3.47			
	1	16.50	0.55		9.08			
	1	8.20	0.55		4.51			
					49.25	Sqm	2647.51	130396.63
Construction of Embankment by excavating the available approved Gravel/Murrum deposited at a place or borrow pits during or prior excavation with all lifts and lead, transportation to site, spreading, grading to required slope and compacting to meet the requirement complete as per specifications, including cost of labour,rolling,water,all materials,usage& all other appurtenaces required to complete the work..(V-II, P.No.7, I.No.1.8 of PW, PWD SR 2021-22)								
Clock and Light tower								
East Side	1	7.25	6.35	0.75	34.53			
West Side	1	6.45	6.35	0.65	26.62			
					61.15	Cum	446.62	27311.16
Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (V-II, P.No.17, I.No.6.33 of PW, PWD SR 2021-22)								
Clock Tower								
For Footing C2 F1	4	1.15		1.95	8.97			
	4	1.15		1.95	8.97			
	4	1.15		1.95	8.97			
	4	1.15		1.25	5.75			
Deduct Door	-1	0.80		1.90	-1.52			
For Sump	2	2.40		2.10	10.08			
	2	3.00		3.00	18.00			
					59.22	Sqm	1178.77	69806.82
Providing and laying flooring and steps fine machine polished granite stone slabs 20 mm thick on cement mortar bed 1:6, 20 mm thick, and joints finished with cement mortar 1:3 over existing cement concrete bed , including cost of materials, mortar, labour, curing complete as per specifications (V-II, P.No.64, I.No.9.30 of PW, PWD SR 2021-22)								
Footpath from East Side of Clock Tower								
from East Side	1	9.50	1.10		10.45			

	1	30.00	1.10		33.00			
	1	10.00	1.10		11.00			
	1	9.50	1.10		10.45			
	1	30.00	1.10		33.00			
	1	10.00	1.10		11.00			
					108.90	Sqm	2667.51	290491.95
Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. Using M.S. angels 40x40x6 mm for diagonal braces including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge (V-II, P.No.75, I.No.11.5.1 of PW, PWD SR 2021-22)								
Clock tower door	1	0.90		1.80	1.62	Sqm	4066.26	6587.34
Providing and fixing M.S. angle 50x50x5 mm to act as nosing with lugs of M.S. flat 10x5 mm, 10 cm long, forked at end 60cm apart (minimum three lugs to be provided), including necessary welding and applying a priming coat of approved primer on exposed surface etc. complete. (V-II, P.No.60, I.No.9.8 of PW, PWD SR 2021-22)								
For clock tower GRFC								
Verticle Line	63	12.80			806.40			
Support to verticle line	72	1.20			86.40			
Ladder	6	3.00			18.00			
	2	1.30			2.60			
	2	2.00			4.00			
	2	2.00			4.00			
					921.40			
50X50X5mm								
0.05*0.05*.005*7850=3.92Kg/mtr	1	921.40	3.92		**3611.9**	**Kg**	**124.43**	**449434.45**
Crawler mounted Crane 35 t capacity (V-II, P.No.A-44, I.No.21 of PW, PWD SR 2021-22)								
Clock tower door								
27 days	25	6			150	**hr**	**4559.24**	**683886.15**
Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in- charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.) including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge. (V-II, P.No.83, I.No.11.28 of PW, PWD SR 2021-22)								
For clock tower								
Railings	**3.00**	**43.74**			**131.22**			
50mm outer dia and 1mm thickness								
3.14(D^2-d^2)*L*7850								
3.14(0.0025-0.0023)*1*7850=4.83Kg/m	1	**131.22**	4.83		633.79	Kg	**555.50**	**352071.79**

Providing and fixing of Ornamental Granite Pillar of overall height of 800mm 200x200sqmm, Octagonal to height of 820mm and carving design at bottom as shown in drawing .and 280mm respectively as per the approved Design and drawing including quarry cutting to the required size and transporting the same from quarry to work spot\ including loading and un loading with all lead and lift etc. complete as per design and drawing. The work shall be carried out as per design and drawing. Firmly fixed to the ground by means of properly designed foundation of size 300mm x 300mm x 300mm in 1:1.5:3 ratio cement concrete The work shall be carried out as per the engineers in charge of the work etc. and completion of the work as per directions of the Engineer-in-charge of the work.(Data Rate)									
Clock Tower	21				21.00				
					21.00	**Nos**	**12500.00**	**262500.00**	
Providing and fixing Glass fiber Reinforcement (GFRC) made up of Alkali Resistant Glass fiber which has high durability in cement composition Na20-Ca0-Zr02-Si02(Zirconium 16% min) diameter 13 micro mtr. Fiber Length varying between 18 to 20mm long specifically produced for use in GFRC and complying with PCI-MNL-130. Fixing to existing steel frame work used for purely decorative applications such as window trims, decorative columns exterior friezes or limestone like wall panels and with finishing painting including cost of materials, labour usage charges of machinery and centering works complete as per specification and as per directions of the Engineer-in-charge.									
NES Circle Clock tower									
Clock Tower									
GRC	4	1.55	13.50		83.70				
Corner Pannnel	1	0.92	13.50		0.92				
Bottom Pannel	4	1.90	1.21		7.60				
	4	1.90	1.38		7.60				
Dedcuct bell Space	-4	0.90	1.50		-5.40				
Door	-1	0.90	1.80		-1.62	Sqmt			
					92.80	**~~LS~~**	**24000.00**	**2227200.00**	
Bell for Clock tower bronze sculpture with following specification a) Making of clay modeling as per the approved schematic sketch b) Making of POP negative mould as per the approved clay model c) Making of FRP (Fiber Reinforced Plastic) casting master pattern d) Making of Bronze Metal (88% of copper and 12% of tin) casting by ABC mould by silica sand process with all necessary melting process materials e) Making of hand carving/ Chiseling grinding, brazing, antic bronze oxidizing by acid process including cost of bronze ornamental finishing f) Imported PU Poly utherin lacqor coating g) The height of the bell about 4.5 feet height and dia of 3.5 feet supported on Bell yoke or headstock,with sound bow, Clapper, lip etc,. with a weight of about 140.00 kgs (apporx) including cost t of all necessary raw materials, labour, artizans and semi artizans works including erection, Excluding all applicable taxes etc., (Including Erection and transportation charges etc.,) complete as per the direction of engineer in charge.									
NES Circle Clock tower	1				**1.00**	**Nos**	**350000.00**	**350000.00**	

6" Clock with back light, Roman digits, with front glass 1.Clock dial design .... : Roman number dials with central Art work as per your selected clock dials. The numbers will be black vinyl cut letters placed on Food Grade Acrylic Imported Sheet of 5mm Thickness. We will produce the clock dial exactly as per your selected design.2. Machine for the tower clocks..... ..... : We will provide GPS based Machine for the tower clock so that the clocks will work with satellite time signals and will display IST Indian Standard Time. 3. Hands for the clock dials..... .. .. : We will provide One No. Hour hand and One No. Minute hand to show time on the clocks. Both the hands will be made with Aluminium Sheet metal and will be dynamically balanced for smooth travelling on the clock dials. The hands will be finished with black powder coat finish . 4. Working power for the tower clocks..... : The tower clocks will be designed to work with 220 Volts AC Single Phase 50Hz. Electric Power. . Battery back up for the tower clocks..... : We will provide 24 hours battery back-up for the tower clocks. The battery will provide power to the clocks for 24 hours on continuous rating. As soon as the electric power resumes, the clocks will start working with AC electric power. Changing from AC power to Battery power and back to AC electric power will be totally automatic. 6. Time Auto re-set facility in the clocks .... : If the power cut prolongs for more than 24 hours then the clocks will stop working. But as soon as the electric power resume, the clocks will set to right time automatically with GPS time signals received from satellite. With GPS time signals the clocks will be totally								
NES Circle Clock tower	4				4.00	Nos	435000.00	1740000.00
								4579700.00
								3845870.57
								4579700.00
							Total Construction Amount	8425570.57
							Towards GST 18%	692256.70
							Total	9117827.27

Assistant Engineer
Project Division Yelahanka

Asst.Executive Engineer
Project Division Yelahanka

Executive Engineer
Project Division Yelahanka

Technical Sanction
Accorded For Rs 91,17,827.27
Head of A/C. P.3748
CER NO :23 Dt:21.09.23

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